FIGURE 1A

ATGGGCGCACTGGCCGG GCGCTGCTGCTG CCTCTGCTGGCC CAGTGGCTCCTG CGCGCC M G A L A R A L L L P L L A Q W L L R A CCCCGG AGCTGGCCCCCG CGCCCTTCACGC TGCCCCTCCGGG TGGCCGCGGCCA CGAAC APELAPAPFT LPLR V A A A T N CGCGTAGTTGCGCCCACC CCGGGACCCGGG ACCCCTGCCGAG CGCCACGCCGAC GGCTTG R V V A P T P G P G T P A E R H A D G L GCGCTCGCCCTGGAGCCT GCCCTGGCGTCC CCCGCGGGCGCC GCCAACTTCTTG GCCATG A L A L E P A L A S P A G A A N F L A M GTAGAC AACCTGCAGGGG GACTCTGGCCGC GGCTACTACCTG GAGATGCTGATC GGGACC V D N L Q G D S G R G Y Y L E M L I G T CCCCG CAGAAGCTACAG ATTCTCGTTGAC ACTGGAAGCAGT AACTTTGCCGTG GCAGGA P P Q K L Q I L V D T G S S N F A V A G ACCCCG CACTCCTACATA GACACGTACTTT GACACAGAGAGG TCTAGCACATAC CGCTCC T P H S Y I D T Y F D T E R S S T Y R S AAGGGCTTTGACGTCACA GTGAAGTACACA CAAGGAAGCTGG ACGGGCTTCGTT GGGGAA K G F D V T V K Y T Q G S W T G F V G E D L V T I P K G F N T S F L V N I A T I TTTGAATCAGAGAATTTC TTTTTGCCTGGG ATTAAATGGAAT GGAATACTTGGC CTAGCT FESENFFLPGIKWNGILGLA TATGCC ACACTTGCCAAG CCATCAAGTTCT CTGGAGACCTTC TTCGACTCCCTG GTGACA Y A T L A K P S S S L E T F F D S L V T CAAGCA AACATCCCCAAC GTTTTCTCCATG CAGATGTGTGGA GCCGGCTTGCCC GTTGCT Q A N I P N V F S M Q M C G A G L P V A GGATCT GGGACCAACGGA GGTAGTCTTGTC TTGGGTGGAATT GAACCAAGTTTG TATAAA G S G T N G G S L V L G G I E P S L Y K GGAGACATCTGGTATACC CCTATTAAGGAA GAGTGGTACTAC CAGATAGAAATT CTGAAA G D I W Y T P I K E E W Y Y Q I E I L K TTGGAAATTGGAGGCCAAAGCCTTAATCTGGACTGCAGAGAGTATAACGCAGACAAGGCC L E I G G Q S L N L D C R E Y N A D K A ATCGTGGACAGTGGCACC ACGCTGCTGCGC CTGCCCCAGAAG GTGTTTGATGCG GTGGTG I V D S G T T L L R L P Q K V F D A V V GAAGCT GTGGCCCGCGCA TCTCTGATTCCA GAATTCTCTGAT GGTTTCTGGACT GGGTCC E A V A R A S L I P E F S D G F W T G S CAGCTGGCGTGCTGGACG AATTCGGAAACA CCTTGGTCTTAC TTCCCTAAAATC TCCATC Q L A C W T N S E T P W S Y F P K I S I TACCTG AGAGATGAGAAC TCCAGCAGGTCA TTCCGTATCACA ATCCTGCCTCAG CTTTAC Y L R D E N S S R S F R I T I L P O L Y ATTCAG CCCATGATGGGG GCCGGCCTGAAT TATGAATGTTAC CGATTCGGCATT TCCCCA $\hbox{\tt I} \hbox{\tt Q} \hbox{\tt P} \hbox{\tt M} \hbox{\tt M} \hbox{\tt G} \hbox{\tt A} \hbox{\tt G} \hbox{\tt L} \hbox{\tt N} \hbox{\tt Y} \hbox{\tt E} \hbox{\tt C} \hbox{\tt Y} \hbox{\tt R} \hbox{\tt F} \hbox{\tt G} \hbox{\tt I} \hbox{\tt S} \hbox{\tt P}$ TCCACA AATGCGCTGGTG ATCGGTGCCACG GTGATGGAGGGC TTCTACGTCATC TTCGAC S T N A L V I G A T V M E G F Y V I F D AGAGCC CAGAAGAGGGTG GGCTTCGCAGCG AGCCCCTGTGCA GAAATTGCAGGT GCTGCA

FIGURE 1B

FIGURE 2A

M A Q A L P W L L L W M G A G V L P A H GGCACCCAGCACGCATC CGGCTGCCCCTG CGCAGCGGCCTG GGGGGCGCCCCC CTGGGG G T Q H G I R L P L R S G L G G A P L G CTGCGGCTGCCCCGGGAG ACCGACGAAGAG CCCGAGGAGCCC GGCCGGAGGGGC AGCTTT L R L P R E T D E E P E E P G R R G S F GTGGAGATGGTGGACAAC CTGAGGGGCAAG TCGGGGCAGGGC TACTACGTGGAG ATGACC V E M V D N L R G K S G Q G Y Y V E M T GTGGGCAGCCCCCGCAG ACGCTCAACATC CTGGTGGATACA GGCAGCAGTAAC TTTGCA V G S P P Q T L N I L V D T G S S N F A GTGGGTGCTGCCCCCAC CCCTTCCTGCAT CGCTACTACCAG AGGCAGCTGTCC AGCACA V G A A P H P F L H R Y Y Q R Q L S S T TACCGGGACCTCCGGAAG GGTGTGTATGTG CCCTACACCCAG GGCAAGTGGGAA GGGGAG Y R D L R K G V Y V P Y T Q G K W E G E CTGGGC ACCGACCTGGTA AGCATCCCCCAT GGCCCCAACGTC ACTGTGCGTGCC AACATT LGTDLVSIPHGPNVTVRANI GCTGCC ATCACTGAATCA GACAAGTTCTTC ATCAACGGCTCC AACTGGGAAGGC ATCCTG A A I T E S D K F F I N G S N W E G I L GGGCTGGCCTATGCTGAG ATTGCCAGGCTT TGTGGTGCTGGC TTCCCCCTCAAC CAGTCT G L A Y A E I A R L C G A G F P L N Q S GAAGTGCTGGCCTCTGTCGGAGGGAGCATGATCATTGGAGGTATCGACCACTCGCTGTAC E V L A S V G G S M I I G G I D H S L Y ACAGGCAGTCTCTGGTAT ACACCCATCCGG CGGGAGTGGTAT TATGAGGTGATC ATTGTG T G S L W Y T P I R R E W Y Y E V I I V ${\tt CGGGTGGAGATCAATGGACAGGATCTGAAAATGGACTGCAAGGAGTACAACTATGACAAG}$ R V E I N G Q D L K M D C K E Y N Y D K AGCATTGTGGACAGTGGC ACCACCAACCTT CGTTTGCCCAAG AAAGTGTTTGAA GCTGCA S I V D S G T T N L R L P K K V F E A A GTCAAATCCATCAAGGCA GCCTCCTCCACG GAGAAGTTCCCT GATGGTTTCTGG CTAGGA V K S I K A A S S T E K F P D G F W L G GAGCAGCTGGTGTGCTGG CAAGCAGGCACC ACCCCTTGGAAC ATTTTCCCAGTC ATCTCA CTCTACCTAATGGGTGAG GTTACCAACCAG TCCTTCCGCATC ACCATCCTTCCG CAGCAA LYLMGEVTNQSFRITILPQQ TACCTG CGGCCAGTGGAA GATGTGGCCACG TCCCAAGACGAC TGTTACAAGTTT GCCATC

FIGURE 2B



FIGURE 3A

ATGGCC CAAGCCCTGCCC TGGCTCCTGCTG TGGATGGGCGCG GGAGTGCTGCCT GCCCAC M A Q A L P W L L L W M G A G V L P A H GGCACC CAGCACGGCATC CGGCTGCCCCTG CGCAGCGGCCTG GGGGGCGCCCCC CTGGGG CTGCGGCTGCCCCGGGAG ACCGACGAAGAG CCCGAGGAGCCC GGCCGGAGGGGC AGCTTT L R L P R E T D E E P E E P G R R G S F GTGGAGATGGTGGACAAC CTGAGGGGCAAG TCGGGGCAGGGC TACTACGTGGAG ATGACC V E M V D N L R G K S G Q G Y Y V E M T GTGGGC AGCCCCCGCAG ACGCTCAACATC CTGGTGGATACA GGCAGCAGTAAC TTTGCA V G S P P Q T L N I L V D T G S S N F A GTGGGTGCTGCCCCCAC CCCTTCCTGCAT CGCTACTACCAG AGGCAGCTGTCC AGCACA V G A A P H P F L H R Y Y Q R Q L S S T TACCGGGACCTCCGGAAG GGTGTGTATGTG CCCTACACCCAG GGCAAGTGGGAA GGGGAG Y R D L R K G V Y V P Y T Q G K W E G E CTGGGCACCGACCTGGTA AGCATCCCCCAT GGCCCCAACGTC ACTGTGCGTGCC AACATT LGTDLVSIPHGPNVTVRANI GCTGCCATCACTGAATCA GACAAGTTCTTC ATCAACGGCTCC AACTGGGAAGGC ATCCTG AAITESDKFFINGSNWEGIL GGGCTGGCCTATGCTGAG ATTGCCAGGCCT GACGACTCCCTG GAGCCTTTCTTT GACTCT G L A Y A E I A R P D D S L E P F F D S CTGGTA AAGCAGACCCAC GTTCCCAACCTC TTCTCCCTGCAG CTTTGTGGTGCT GGCTTC LVKQTHVPNLFSLQLCGAGF CCCCTCAACCAGTCTGAA GTGCTGGCCTCT GTCGGAGGGAGC ATGATCATTGGA GGTATC P L N Q S E V L A S V G G S M I I G G I GACCACTCGCTGTACACA GGCAGTCTCTGG TATACACCCATC CGGCGGGAGTGG TATTAT D H S L Y T G S L W Y T P I R R E W Y Y GAGGTCATCATTGTGCGG GTGGAGATCAAT GGACAGGATCTG AAAATGGACTGC AAGGAG EVIIVRVEINGODLKMDCKE TACAACTATGACAAGAGC ATTGTGGACAGT GGCACCACCAAC CTTCGTTTGCCC AAGAAA Y N Y D K S I V D S G T T N L R L P K K GTGTTTGAAGCTGCAGTC AAATCCATCAAG GCAGCCTCCTCC ACGGAGAAGTTC CCTGAT V F E A A V K S I K A A S S T E K F P D

FIGURE 3B

GGTTTCTGGCTAGGAGAG CAGCTGGTGTGC TGGCAAGCAGGC ACCACCCCTTGG AACATT G F W L G E Q L V C W Q A G T T P W N I TTCCCAGTCATCTCACTC TACCTAATGGGT GAGGTTACCAAC CAGTCCTTCCGC ATCACC F P V I S L Y L M G E V T N Q S F R I T ATCCTT CCGCAGCAATAC CTGCGGCCAGTG GAAGATGTGGCC ACGTCCCAAGAC GACTGT I L P Q Q Y L R P V E D V A T S Q D D C TACAAGTTTGCCATCTCA CAGTCATCCACG GGCACTGTTATG GGAGCTGTTATC ATGGAG Y K F A I S O S S T G T V M G A V I M E GGCTTCTACGTTGTCTTT GATCGGGCCCGA AAACGAATTGGC TTTGCTGTCAGC GCTTGC G F Y V V F D R A R K R I G F A V S A C CATGTG CACGATGAGTTC AGGACGGCAGCG GTGGAAGGCCCT TTTGTCACCTTG GACATG H V H D E F R T A A V E G P F V T L D M GAAGACTGTGGCTACAAC ATTCCACAGACA GATGAGTCAACC CTCATGACCATA GCCTAT E D C G Y N I P Q T D E S T L M T I A Y GTCATGGCTGCCATCTGC GCCCTCTTCATG CTGCCACTCTGC CTCATGGTGTGT CAGTGG V M A A I C A L F M L P L C L M V C Q W CGCTGC CTCCGCTGCCTG CGCCAGCAGCAT GATGACTTTGCT GATGACATCTCC CTGCTG R C L R C L R Q Q H D D F A D D I S L L AAGTGA GGAGGCCCATGG GCAGAAGATAGA GATTCCCCTGGA CCACACCTCCGT GGTTCA

ATGGC CCCAGCGCTGCA CTGGCTCCTGCT ATGGGTGGGCTC GGGAATGCTGCC TGCCCAG MAPALH W L L L W V G S G M L P A Q GGAACCCATCTCGGCAT CCGGCTGCCCCT TCGCAGCGGCCT GGCAGGGCCACC CCTGGGC G T H L G I R L P L R S G L AGPPLG CTGAGGCTGCCCGGGA GACTGACGAGGA ATCGGAGGAGCC TGGCCGGAGAGG CAGCTTT L R L P R E T D E E S E E P GRRGSF GTGGAGATGGTGGACAA CCTGAGGGGAAA GTCCGGCCAGGG CTACTATGTGGA GATGACC VEMVDNLRGKSGQGYYVEMT GTAGG CAGCCCCCACA GACGCTCAACAT CCTGGTGGACAC GGGCAGTAGTAA CTTTGCA V G S P P Q T L N I L V D T G S S N F A GTGGGGGCTGCCCCACA CCCTTTCCTGCA TCGCTACTACCA GAGGCAGCTGTC CAGCACA V G A A P H P F L H R Y Y Q R Q L S S T TATCG AGACCTCCGAAA GGGTGTGTATGT GCCCTACACCCA GGGCAAGTGGGA GGGGGAA YRDLRKGVYV P Y T O G K W CTGGG CACCGACCTGGT GAGCATCCCTCA TGGCCCCAACGT CACTGTGCGTGC CAACATT L G T D L V S T P H G P N V TVRANI GCTGC CATCACTGAATC GGACAAGTTCTT CATCAATGGTTC CAACTGGGAGGG CATCCTA A A I T E S D K F F I N G S N W E G I L GGGCTGGCCTATGCTGA GATTGCCAGGCC CGACGACTCTTT GGAGCCCTTCTT TGACTCC G L A Y A E I A R P D D S L E P CTGGT GAAGCAGACCCA CATTCCCAACAT CTTTTCCCTGCA GCTCTGTGGCGC TGGCTTC L V K Q T H I P N I F S L Q L C G A G F CCCCT CAACCAGACCGA GGCACTGGCCTC GGTGGGAGGGAG CATGATCATTGG TGGTATC PLNQTEALAS V G G S M I I G G I GACCA CTCGCTATACAC GGGCAGTCTCTG GTACACACCCAT CCGGCGGAGTG GTATTAT D H S L Y T G S L W Y T P I RREW GAAGT GATCATTGTACG TGTGGAAATCAA TGGTCAAGATCT CAAGATGGACTG CAAGGAG E V I I V R V E I N G Q D L K M D C K E TACAA CTACGACAAGAG CATTGTGGACAG TGGGACCACCAA CCTTCGCTTGCC CAAGAAA LRLPKK Y N Y D K S T V D S GTTN GTATTTGAAGCTGCCGT CAAGTCCATCAA GGCAGCCTCCTC GACGGAGAAGTT CCCGGAT V F E A A V K S I K A A S S T E K F P D GGCTTTTGGCTAGGGGA GCAGCTGGTGTG CTGGCAAGCAGG CACGACCCCTTG GAACATT G F W L G E Q L V C W Q A G T T P W N I TTCCCAGTCATTTCACT TTACCTCATGGG TGAAGTCACCAA TCAGTCCTTCCG CATCACC F P V I S L Y L M G E V T N Q S F R I ATCCTTCCTCAGCAATA CCTACGGCCGGT GGAGGACGTGGC CACGTCCCAAGA CGACTGT I L P O O Y L R P V E D V A T S O D D C TACAAGTTCGCTGTCTC ACAGTCATCCAC GGGCACTGTTAT GGGAGCCGTCAT CATGGAA KFAVS OSSTGTVMGAVIME GGTTT CTATGTCGTCTT CGATCGAGCCCG AAAGCGAATTGG CTTTGCTGTCAG CGCTTGC G F Y V V F D R A R K R I G F A V S A C CATGTGCACGATGAGTT CAGGACGGCGGC AGTGGAAGGTCC GTTTGTTACGGC AGACATG H V H D E F R T A A V E G P F V T A D M GAAGA CTGTGGCTACAA CATTCCCCAGAC AGATGAGTCAAC ACTTATGACCAT AGCCTAT E D C G Y N I P Q T D E S T L M T I A Y GTCATGGCGCCATCTG CGCCCTCTTCAT GTTGCCACTCTG CCTCATGGTATG TCAGTGG V M A A I C A L F M L P L C L M V C O W CGCTG CCTGCGTTGCCT GCGCCACCAGCA CGATGACTTTGC TGATGACATCTC CCTGCTC R C L R C L R H Q H D D F A D D I S L L AAGTA AGGAGGCTCGTG GGCAGATGATGG AGACGCCCCTGG ACCACATCTGGG TGGTTCC CTTTGGTCACATGAGTT GGAGCTATGGAT GGTACCTGTGGC CAGAGCACCTCA GGACCCT CACCA ACCTGCCAATGC TTCTGGCGTGAC AGAACAGAGAAA TCAGGCAAGCTG GATTACA GGGCTTGCACCTGTAGG ACACAGGAGAGG GAAGGAAGCAGC GTTCTGGTGGCA GGAATAT CCTTAGGCACCACAAC TTGAGTTGGAAA TTTTGCTGCTTG AAGCTTCAGCCC TGACCCT CTGCCCAGCATCCTTTA GAGTCTCCAACC TAAAGTATTCTTTATGTCCTTCCA GAAGTAC TGGCGTCATACTCAGGCTACCCGGCATGTGTCCCTGTGGTACCCTGGCAGAGAAAGGGCC AATCT CATTCCCTGCTG GCCAAAGTCAGC AGAAGAAGGTGA AGTTTGCCAGTT GCTTTAG TGATA GGGACTGCAGAC TCAAGCCTACAC TGGTACAAAGAC TGCGTCTTGAGA TAAACAA GAA

	MAQALPWLLLWMGAGVLPAHGTQHGIRLPLRSGLGGAPLGLRLPRETDEE	50
1	MAPALHWLLLWVGSGMLPAQGTHLGIRLPLRSGLAGPPLGLRLPRETDEE	50
51	PEEPGRRGSFVEMVDNLRGKSGQGYYVEMTVGSPPQTLNILVDTGSSNFA	100
51		100
101	VGAAPHPFLHRYYQRQLSSTYRDLRKGVYVPYTQGKWEGELGTDLVSIPH	150
101	VGAAPHPFLHRYYQRQLSSTYRDLRKGVYVPYTQGKWEGELGTDLVSIPH	150
151	GPNVTVRANIAAITESDKFFINGSNWEGILGLAYAEIARPDDSLEPFFDS	200
151		200
201	LVKQTHVPNLFSLQLCGAGFPLNQSEVLASVGGSMIIGGIDHSLYTGSLW	250
201	LVKQTHIPNIFSLQLCGAGFPLNQTEALASVGGSMIIGGIDHSLYTGSLW	250
251		300
251	YTPIRREWYYEVIIVRVEINGQDLKMDCKEYNYDKSIVDSGTTNLRLPKK	300
301	VFEAAVKSIKAASSTEKFPDGFWLGEQLVCWQAGTTPWNIFPVISLYLMG	350
301	VFEAAVKSIKAASSTEKFPDGFWLGEQLVCWQAGTTPWNIFPVISLYLMG	350
351	EVTNQSFRITILPQQYLRPVEDVATSQDDCYKFAISQSSTGTVMGAVIME	400
351	EVTNQSFRITILPQQYLRPVEDVATSQDDCYKFAVSQSSTGTVMGAVIME	400
401	GFYVVFDRARKRIGFAVSACHVHDEFRTAAVEGPFVTLDMEDCGYNIPQT	450
401	CDIRE INDO S DIES - CONTROL CO	450
451	DESTLMTIAYVMAAICALFMLPLCLMVCQWRCLRCLRQQHDDFADDISLL	500
451	DESTLMTIAYVMAAICALFMLPLCLMVCQWRCLRCLRHQHDDFADDISLL	500
501	K 501	
501	K 501	

FIGURE 6A

ATGGCTAGC ATGACTGGTGGA CAGCAAATGGGT CGCGGATCCACC CAGCACGGCATC CGG M A S M T G G Q Q M G R G S T Q H G I R CTGCCCTG CGCAGCGGCCTG GGGGGCGCCCC CTGGGGCTGCGG CTGCCCCGGGAG ACC LPLRSGLGGAPLGLRLPRET GACGAAGAG CCCGAGGAGCCC GGCCGGAGGGGC AGCTTTGTGGAG ATGGTGGACAAC CTG D E E P E E P G R R G S F V E M V D N AGGGGCAAG TCGGGGCAGGGC TACTACGTGGAG ATGACCGTGGGC AGCCCCCCGCAG ACG R G K S G Q G Y Y V E M T V G S P P Q T CTCAACATC CTGGTGGATACA GGCAGCAGTAAC TTTGCAGTGGGT GCTGCCCCCCAC CCC L N I L V D T G S S N F A V G A A P H P TTCCTGCAT CGCTACTACCAG AGGCAGCTGTCC AGCACATACCGG GACCTCCGGAAG GGC F L H R Y Y O R O L S S T Y R D L R K G GTGTATGTG CCCTACACCCAG GGCAAGTGGGAA GGGGAGCTGGGC ACCGACCTGGTA AGC V Y V P Y T Q G K W E G E L G T D L V S ATCCCCCAT GGCCCCAACGTC ACTGTGCGTGCC AACATTGCTGCC ATCACTGAATCA GAC I P H G P N V T V R A N I A A I T E S D AAGTTCTTC ATCAACGGCTCC AACTGGGAAGGC ATCCTGGGGCTG GCCTATGCTGAG ATT K F F I N G S N W E G I L G L A Y A E I GCCAGGCCT GACGACTCCCTG GAGCCTTTCTTT GACTCTCTGGTA AAGCAGACCCAC GTT A R P D D S L E P F F D S L V K O T H V CCCAACCTC TTCTCCCTGCAG CTTTGTGGTGCT GGCTTCCCCCTC AACCAGTCTGAA GTG P N L F S L Q L C G A G F P L N Q S E V CTGGCCTCT GTCGGAGGGAGC ATGATCATTGGA GGTATCGACCAC TCGCTGTACACA GGC L A S V G G S M I I G G I D H S L Y T G AGTCTCTGG TATACACCCATC CGGCGGGAGTGG TATTATGAGGTC ATCATTGTGCGG GTG S L W Y T P I R R E W Y Y E V I I V R V GAGATCAAT GGACAGGATCTG AAAATGGACTGC AAGGAGTACAAC TATGACAAGAGC ATT EINGQDLKMDCKEYNYDKSI GTGGACAGT GGCACCACCAAC CTTCGTTTGCCC AAGAAAGTGTTT GAAGCTGCAGTC AAA V D S G T T N L R L P K K V F E A A V K TCCATCAAG GCAGCCTCCTCC ACGGAGAAGTTC CCTGATGGTTTC TGGCTAGGAGAG CAG SIKAASSTEKFPD.G-FWLGEQ CTGGTGTGC TGGCAAGCAGGC ACCACCCCTTGG AACATTTTCCCA GTCATCTCACTC TAC L V C W Q A G T T P W N I F P V I S L Y CTAATGGGT GAGGTTACCAAC CAGTCCTTCCGC ATCACCATCCTT CCGCAGCAATAC CTG LMGEVTNOSFRITILPOOYL CGGCCAGTGG AAGATGTGGCCA CGTCCCAAGACG ACTGTTACAAGT TTGCCATCTCAC AG

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FIGURE 6B

R P V E D V A T S Q D D C Y K F A I S Q

TCATCCACGG GCACTGTTATGG GAGCTGTTATCA TGGAGGGCTTCT ACGTTGTCTTTG AT
S S T G T V M G A V I M E G F Y V V V F D

CGGGCCCGAA AACGAATTGGCT TTGCTGTCACGC CTTGCCATGTC ACGATGAGTTCA GG
R A R K R I G F A V S A C H V H D E F R

ACGGCAGCGG TGGAAGGCCCTT TTGTCACCTTGG ACATGGAAGACT GTGGCTACAACA TT
T A A V E G P F V T L D M E D C G Y N I

CCACAGACAG ATGAGTCATGA

P Q T D E S *

FIGURE 7A

ATGGCTAGC ATGACTGGTGGA CAGCAAATGGGT CGCGGATCGATG ACTATCTCTGAC TCT M A S M T G G Q Q M G R G S M T I S D S CCGCGTGAA CAGGACGGATCC ACCCAGCACGGC ATCCGGCTGCCC CTGCGCAGCGGC CTG PREQDGS TQHGIRLPLRSGL GGGGGCGCC CCCCTGGGGCTG CGGCTGCCCCGG GAGACCGACGAA GAGCCCGAGGAG CCC G G A P L G L R L P R E T D E E P E E P GGCCGGAGG GGCAGCTTTGTG GAGATGGTGGAC AACCTGAGGGGC AAGTCGGGGCAG GGC G R R G S F V E M V D N L R G K S G Q G TACTACGTG GAGATGACCGTG GGCAGCCCCCCG CAGACGCTCAAC ATCCTGGTGGAT ACA Y Y V E M T V G S P P Q T L N I L V D T GGCAGCAGT AACTTTGCAGTG GGTGCTGCCCCC CACCCCTTCCTG CATCGCTACTAC CAG G S S N F A V G A A P H P F L H R Y Y O AGGCAGCTG TCCAGCACATAC CGGGACCTCCGG AAGGGCGTGTAT GTGCCCTACACC CAG R Q L S S T Y R D L R K G V Y V P Y T Q GGCAAGTGG GAAGGGGAGCTG GGCACCGACCTG GTAAGCATCCCC CATGGCCCCAAC GTC G K W E G E L G T D L V S I P H G P N V ACTGTGCGT GCCAACATTGCT GCCATCACTGAA TCAGACAAGTTC TTCATCAACGGC TCC T V R A N I A A I T E S D K F F I N G S AACTGGGAA GGCATCCTGGGG CTGGCCTATGCT GAGATTGCCAGG CCTGACGACTCC CTG N W E G I L G L A Y A E I A R P D D S L GAGCCTTTC TTTGACTCTCTG GTAAAGCAGACC CACGTTCCCAAC CTCTTCTCCCTG CAG E P F F D S L V K Q T H V P N L F S L Q CTTTGTGGT GCTGGCTTCCCC CTCAACCAGTCT GAAGTGCTGGCC TCTGTCGGAGGG AGC L C G A G F P L N Q S E V L A S V G G S ATGATCATT GGAGGTATCGAC CACTCGCTGTAC ACAGGCAGTCTC TGGTATACACCC ATC M I I G G I D H S L Y T G S L W Y T P I CGGCGGGAG TGGTATTATGAG GTCATCATTGTG CGGGTGGAGATC AATGGACAGGAT CTG R R E W Y Y E V I I V R V E I N G Q D L AAAATGGAC TGCAAGGAGTAC AACTATGACAAG AGCATTGTGGAC AGTGGCACCACC AAC K M D C K E Y N Y D K S I V D S G T T N CTTCGTTTG CCCAAGAAAGTG TTTGAAGCTGCA GTCAAATCCATC AAGGCAGCCTCC TCC L R L P K K V F E A A V K S I K A A S S ACGGAGAAG TTCCCTGATGGT TTCTGGCTAGGA GAGCAGCTGGTG TGCTGGCAAGCA GGC TEKFPDGFWLGEQLVCWQAG ACCACCCCTT GGAACATTTTCC CAGTCATCTCAC TCTACCTAATGG GTGAGGTTACCA AC TTPWNIFPVISLYLMGEVTN

FIGURE 7B

egar d

FIGURE 8A

AT GACTCAGCATGG TATTCGTCTGCC ACTGCGTAGCGG TCTGGGTGGTGC TCCACTGGGT M T Q H G I R L P L R S G L G G A P L G LRLPRETDEEPEEPGRRGSF GTGGAGATGGTGGA CAACCTGAGGGG CAAGTCGGGGCA GGGCTACTACGT GGAGATGACC V E M V D N L R G K S G Q G Y Y V E M T GTGGGCAGCCCCC GCAGACGCTCAA CATCCTGGTGGA TACAGGCAGCAG TAACTTTGCA V G S P P Q T L N I L V D T G S S N F A GTGGGTGCTGCCCC CCACCCCTTCCT GCATCGCTACTA CCAGAGGCAGCT GTCCAGCACA V G A A P H P F L H R Y Y Q R Q L S S T -TA CCGGGACCTCCG GAAGGGCGTGTA TGTGCCCTACAC CCAGGGCAAGTG GGAAGGGGAG YRDLRKGVYVPYTOGKWEGE LGTDLVSIPHGPNVTVRANI GCTGCCATCACTGA ATCAGACAAGTT CTTCATCAACGG CTCCAACTGGGA AGGCATCCTG A A I T E S D K F F I N G S N W E G I L GGGCTGGCCTATGC TGAGATTGCCAG GCCTGACGACTC CCTGGAGCCTTT CTTTGACTCT G L A Y A E I A R P D D S L E P F F D S CTGGTAAAGCAGAC CCACGTTCCCAA CCTCTTCTCCCT GCAGCTTTGTGG TGCTGGCTTC L V K Q T H V P N L F S L Q L C G A G F CC CCTCAACCAGTC TGAAGTGCTGGC CTCTGTCGGAGG GAGCATGATCAT TGGAGGTATC P L N Q S E V L A S V G G S M I I G G I GA CCACTCGCTGTA CACAGGCAGTCT CTGGTATACACC CATCCGGCGGGA GTGGTATTAT GAGGTCATCATTGT GCGGGTGGAGAT CAATGGACAGGA TCTGAAAATGGA CTGCAAGGAG $\begin{smallmatrix} E & V & I & I & V & R & V & E & I & N & G & Q & D & L & K & M & D & C & K & E \\ \end{smallmatrix}$ TA CAACTATGACAA GAGCATTGTGGA CAGTGGCACCAC CAACCTTCGTTT GCCCAAGAAA Y N Y D K S I V D S G T T N L R L P K K GTGTTTGAAGCTGC AGTCAAATCCAT CAAGGCAGCCTC CTCCACGGAGAA GTTCCCTGAT V F E A A V K S I K A A S S T E K F P D GGTTTCTGGCTAGG AGAGCAGCTGGT GTGCTGGCAAGC AGGCACCACCCC TTGGAACATT G F W L G E Q L V C W Q A G T T P W N I TT CCCAGTCATCTC ACTCTACCTAAT GGGTGAGGTTAC CAACCAGTCCTT TCGCATCACC F P V I S L Y L M G E V T N Q S F R I T AT CCTTCCGCAGCA ATACCTGCGGCC AGTGGAAGATGT GGCCACGTCCCA AGACGACTGT I L P Q Q Y L R P V E D V A T S Q D D C -

FIGURE 8B

 TA CAAGTTTGCCAT CTCACGGGCACTGT TATGGGAGCTGT TATCATGGAG

 Y
 K
 F
 A
 I
 S
 Q
 S
 T
 G
 T
 V
 M
 G
 A
 V
 I
 M
 E

 GGCTTCTACGTTGT CTTTGATCGGGC CCGAAAACGAATTGGCTTTGCTGT CAGCGCTTGC
 C
 G
 F
 A
 V
 S
 A
 C

CATTAG

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يعاد الإنجاجي:

IP: Ab 369		٠.				←CTF99
IP: Ab C8		-		2.44	ş ile	←СТР99
	Asp2-1 antisense	Asp2-2 reverse	Asp2-1 reverse	Asp2-2 antisense	mock transfected	

FIGURE 10

As	р	
- +	- +	
巨巨		←AP
v sakujaja – Tr <u>opisijama</u>		
	`	←CTF9
APP-Sw-KK	APP-KK	

MAQALPWLLLWMGAGVLPAHGTQHGIRLPLRSGLGGAPLGLRLPRETDEE PEEPGRRGSFVEMVDNLRGKSGQGYYVEMTVGSPPQTLNILVDTGSSNFA VGAAPHPFLHRYYQRQLSSTYRDLRKGVYVPYTQGKWEGELGTDLVSIPH GPNVTVRANIAAITESDKFFINGSNWEGILGLAYAEIARPDDSLEPFFDS LVKQTHVPNLFSLQLCGAGFPLNQSEVLASVGGSMIIGGIDHSLYTGSLW YTPIRREWYYEVIIVRVEINGQDLKMDCKEYNYDKSIVDSGTTNLRLPKK VFEAAVKSIKAASSTEKFPDGFWLGEQLVCWQAGTTPWNIFPVISLYLMG EVTNQSFRITILPQQYLRPVEDVATSQDDCYKFAISQSSTGTVMGAVIME GFYVVFDRARKRIGFAVSACHVHDEFRTAAVEGPFVTLDMEDCGYNIPQT DES

MAQALPWLLLWMGAGVLPAHGTQHGIRLPLRSGLGGAPLGLRLPRETDEE
PEEPGRRGSFVEMVDNLRGKSGQGYYVEMTVGSPPQTLNILVDTGSSNFA
VGAAPHPFLHRYYQRQLSSTYRDLRKGVYVPYTQGKWEGELGTDLVSIPH
GPNVTVRANIAAITESDKFFINGSNWEGILGLAYAEIARPDDSLEPFFDS
LVKQTHVPNLFSLQLCGAGFPLNQSEVLASVGGSMIIGGIDHSLYTGSLW
YTPIRREWYYEVIIVRVEINGQDLKMDCKEYNYDKSIVDSGTTNLRLPKK
VFEAAVKSIKAASSTEKFPDGFWLGEQLVCWQAGTTPWNIFPVISLYLMG
EVTNQSFRITILPQQYLRPVEDVATSQDDCYKFAISQSSTGTVMGAVIME
GFYVVFDRARKRIGFAVSACHVHDEFRTAAVEGPFVTLDMEDCGYNIPQT
DESHHHHHH